

## ECOLOGY AND ENVIRONMENT, INC.

## REGION VI

**MEMORANDUM** 

TO: David Peters, Chief

Hazardous Waste Section

FROM: Michael E. Benner, FIT/Hydrogeologist

THRU: K. H. Malone, Jr., RPM

DATE: November 7, 1983

SUBJ: Test Borings, Harris Corporation, Kennedale, Texas (TX10227)
TDD #R6-8307-14
TVD @ 73 /49 957

On August 17, 1983 FIT members M. Benner, M. Riforgiat, A. Newton and R. Roblin met with Daniel Dowiak, Senior Environmental Engineer with Tera Corporation, who was acting as technical representative for Harris Corporation. The FIT drilled

two test borings within an abandoned pit located on the hill at the southeast corner of the Harris Corporation property. The 20'x20'x8' (approximate dimensions) pit had been used for disposal of waste machining coolant/lubricant for about a six month period in 1970.

The FIT, accompanied by Mr. Dowiak, used a power auger with 4 inch diameter flights to drill and sample soils from two test borings which were located within the old pit to ascertain whether or not a potential source of groundwater contamination may exist (see figure 1). Figure 2 presents a log of materials encountered at each boring and the final completion design of each boring. No visual or olfactory evidence was observed of any contamination in either boring. Both borings were completed to a drilled depth of 9.0 feet (Boring 1 filled in to 8.7 feet). Temporary piezometers were installed in each boring to facilitate water sampling following a heavy precipitation event should it be deemed necessary pending the soil analysis results (no water was encountered in either boring). (See figure 2).

Soil samples were taken from 0 to 1.5 feet and 6.5-8.7 feet from boring 1 and 0 to 1.5 feet and 7.5 to 9.0 feet from boring 2. Soil samples were taken from the hole cuttings and directly off the auger flight. Samples were submitted to California Analytical Laboratories, Inc., Sacramento, California for inorganic analysis and Hazleton-Raltech, Madison, Wisconsin for organic analysis. were split with Mr. Dowiak. Chain-of-Custody documentation is attached.

> 9490647

SUPERFUND FILE

FEB 03 1993

REORGANIZED

Analytical results are presented on the attached sample summary sheets. No significant amounts of metals were detected in any of the samples. Organic analysis indicated the presence of pentane in both samples from boring #1 and the 7.5 to 9.0 feet sample from boring #2. Pentane concentrations ranged from 0.0038 to 0.053 ppm. Pentane is a light volatile organic which is found in some cleaning solvents. There are no standards for pentane concentrations. All other organic compounds detected were also present in the field blank.

Based upon the low concentrations of pentane and the fact that no other contaminants were present, no further action at the Harris Corporation site is recommended.

Page 1 of 1

CASE NUMBER: 1985

SITE NAME/CODE: Harris Corp.

Sample Station

Location

ft.

ft.

TX 10227

CONCENTED ATTOMC (

				E	PA Sample		ONS (ppm)	Mean Ambient	Background 1.
PA	RAMETER							Western	Eastern
		MF 0097	MF 0098	MF 0096	1MF 0109	MF 0110		— U.S. 2. ↑	U.S. 2.
	Matrix Type	Soi1	Soil	Soil	Soil	Blank		Soil	Soil
	Aluminum	1600	1800	1100	1300			54,000	33,000
	Chromium	10	5.3	2.5	13			38	36
	Barium		5.0	11	13			560	300
	Beryllium							0.6	0.6
	Cobalt							8	7
	Copper				46			21	14
ask l	Iron	7900	12,000	39,00	10,000			20,000	15,000
	Nickel				5.3			16	13
	Manganese	50	48	100	130			390	290
	Zinc	2.4	3.1	2	8.4			51	36
	Boron							22	32
	Vanadium		11					66	46
•	Silver							<.50	••••
	Arsenic	1.4	1.1		2.4			6.1	5.4
•	Antimony							<150	-
•	Selenium							0.25	0.39
Task 2	Thallium							_	-
·	Mercury							0.055	0.096
	Tin					2		<10	<10
•	Cadmium				0.1			<1	<del></del>
•	Lead	2.8	4	3.3	7.5			18	14
	Ammonia	26	23	1.4	1.7				-
ask 3	Cyanide							_	_
•	Sulfide							_	
mple	Station Number	02	01	01	02				ckground concer
		Hole #2	Hole #1	Hole #1	Hole #2	Bl ank			pply only to so
		7.5-9	6.5-8.7	0-1.5	0-1.5			matrix sam	ples. Values o

2. Reference for East/West Division is the 97° W longitudinal line which bisects Region VI.

ft.

ft.

matrix samples. Values obtained from "Geochemistry of Some Rocks, Soils, Plant and Vegetables in the Contermious United States" Geological Survey Professional Paper 574 F 1975.

Page 1 of 1

1895 CASE NUMBER:

SITE NAME/CODE: Harris Corporation

TX 10227

	CONCENTRATIONS (ppm)											
								EPA SAMP	LE NUMBE	RS		
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									_	Lab		
Compound	Fraction		S.H.S.	T.I.	F2315	F2316	F2317	F2327	F2328	Blank		
l, l, l-Trichloroethane	VOA	X			present				present			
Chloroform	VOA	X			present			present				
Methylene Chloride	VOA	X			0.127	present			present		··	
Toluene	VOA	X			present			present				
Ac one	VOA		X		0.06	0.07	0.033	2.2	0.03	present		,
2-butanone	VOA		X		present							
Carbon disulfide	VOA		X		present		present	present		present		
pentane	VOA	<u></u>		X		0.053	0.043		0.038			
benzene	VOA	X				present	present	present				
acrylonitrile	VOA	X						present				
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sample Sta	ILTON NUMB	er	· · · · · · · · · · · · · · · · · · ·		Hole #2		Hole #2	P1 0-1-	Hole #1			
								отапк	**			
		. •			0-1.5	6.5-8.7			0-1.5			
Sample Sta	ft.	ft.	ft.		ft.							

Priority Pollutant. Specified Hazardous Substance. Tentatively Identified.

**CHAIN OF CUSTODY RECORD** 

1201 Elm Street Dallas, Texas 75270

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REGION 6
First Internation Building
1201 Elm Street
Dallas, Texas 75270

## **CHAIN OF CUSTODY RECORD**

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